

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015**

**Sutter Maintenance Yard Hamilton Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	11/16/2015 11/16/2015	Bob Duffey

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
					°
DWR ID	DWR_ST0005_01_s _ 2013_7				
Action/Comments					
Inspector Comments: The O&M manuals are located at the Sutter Maintenance Yard.					

No Photos

LM Start		Rating **	A	Issue No.	8	
LM End		Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Emergency Supplies & Equipment				°	
					°	
DWR ID	DWR_ST0005_01_s _ 2013_8					
Action/Comments						
Inspector Comments: Emergency supplies and equipment are stored at the Sutter Maintenance Yard.						

No Photos

LM Start		Rating **	A	Issue No.	9	
LM End		Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Flood Preparedness & Training				°	
					°	
DWR ID	DWR_ST0005_01_s _ 2013_9					
Action/Comments						
Inspector Comments: Sutter Maintenance Yard employees attend the annual Flood Fight class put on by DWR inspector Bob Duffy.						

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Feather River Hamilton Bend	Right	3.39	11/16/2015 11/16/2015	Bob Duffey

LM Start	0.00	Rating **	A	Issue No.	13
LM End	1.21	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.439712 °	39.456765 °
				-121.641457 °	-121.639258 °
DWR ID	DWR_ST0005_01_f_2015_13				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comments: The SBFCA levee project is still in construction phase so I was unable to inspect the levee from levee mile 0.00 to 1.21.					

Photo 1 of 1 : FA\_2015\_ST0005\_289\_13\_20151118\_00013.jpg



View of the crown roadway under construction.

LM Start	0.19	Rating **	M	Issue No.	15
LM End	0.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.442435 °	39.442435 °
				-121.641760 °	-121.641760 °
DWR ID	DWR_ST0005_01_s_2015_15				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	0.37	Rating **	M	Issue No.	12
LM End	0.37	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.445008 °	39.445008 °
				-121.641811 °	-121.641812 °
DWR ID	DWR_ST0005_01_s_2014_12				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 1 of 1 : FA\_2015\_ST0005\_289\_12\_20151109\_00004.jpg



This photo was taken from the levee crown facing north looking at crown surface depressions caused by vehicle traffic. Spring 2014.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	11/16/2015 11/16/2015	Bob Duffey

LM Start	0.40	Rating **	M	Issue No.	2
LM End	0.40	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.445420 °	39.445430 °
				-121.641809 °	-121.641802 °
DWR ID	DWR_ST0005_01_s _ 2015_2				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation.					

Photo 1 of 1 : FA\_2015\_ST0005\_289\_2\_20151109\_00001.jpg



Deep rut in crown. Repair prior to flood season.

LM Start	0.45	Rating **	M	Issue No.	17
LM End	0.45	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.446168 °	39.446168 °
				-121.641742 °	-121.641742 °
DWR ID	DWR_ST0005_01_s _ 2015_17				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

No Photos

LM Start	1.08	Rating **	U	Issue No.	18
LM End	1.08	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.454935 °	39.454935 °
				-121.640097 °	-121.640097 °
DWR ID	DWR_ST0005_01_s _ 2015_18				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 1 of 2 : FA\_2015\_ST0005\_289\_18\_20151109\_00005.jpg



View of the depression on the crown facing the waterside of the levee.

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LM Start	1.08	Rating **	U	Issue No.	18 (cont)
LM End	1.08	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.454935 °	39.454935 °
				-121.640097 °	-121.640097 °
DWR ID	DWR_ST0005_01_s _ 2015_18				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 2 of 2 : FA\_2015\_ST0005\_289\_18\_20151109\_00006.jpg



View of the depression on the crown facing downstream.

LM Start	1.48	Rating **	M	Issue No.	4
LM End	3.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.458060 °	39.470433 °
				-121.636332 °	-121.609200 °
DWR ID	DWR_ST0005_01_s _ 2013_4				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : FA\_2015\_ST0005\_289\_4\_20151109\_00002.jpg



L/S trees.

LM Start	1.51	Rating **	M	Issue No.	5
LM End	1.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.458255 °	39.459451 °
				-121.635808 °	-121.633670 °
DWR ID	DWR_ST0005_01_s _ 2013_5				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : FA\_2015\_ST0005\_289\_5\_20151109\_00003.jpg



W/S trees.

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